

Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Gln Val Val Gln Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala

635 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 381
 ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt cctcaccac 60
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 ccaatatccc aggagaagca ttggggagtt gggggcaggt gaaggaccca ggaactcacac 180
 atcctggggc tccaagycag agggaggggt cctcaagaag gtcaggagga aatccgttaa 240
 caagcagtc a 251

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382
 ctctctgcag ccccatgct ggtgaggggc aagggcagga acagtggacc caacatggaa 60
 atgctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt 120
 cactggggagg ggacatcctg cagaaggtag gagttagcaa acacccgctg caggggaggg 180
 gagagccttg cggcaccctg gggagcagag ggagcagcac ctgcccaggc ctgggagggg 240
 gggcctggag ggcgtgagga ggaagcaggg ggcctgcatgg ctggagttag ggaacagggg 300
 cagggcgcga gatggcctca cacagggaaag agagggcccc tctgcagggg cctcacctgg 360
 gccacaggag gacactgctt ttctctgtag gagtacagg ctgtggatgg tgcctggacg 420
 aagaaggaca gggcctggtt caggtgtcca gaggtgtctg ctggtctccc ttggggatca 480
 gactgcaggg agggagggcg gcaggggtgt ggggggagtg acgatgagga tgacctgggg 540
 gtggctccag gccctgcccc tgcctggggc ctcaaccagc ctccctcaca gtctcctggc 600
 cctcagcttc tcccctccc tccatctccc atctggctc agtgggtcat tctgatcat 660
 gaactgacca taaccagccc tgcaccgggc cctccatggc tccccaatgc cctggagagg 720
 ggacatctag tcagagagta gtctgaaga ggtggcctct gcgatgtgcc tgtgggggca 780
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 gcattacagg aagtggatca aggaacccat cgcagccaac cctgagtgcc ccttgtccca 1260
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 tgctggacac ctgaagcttg gaactcaact ggcgcgaagct ctagcctcct gagtccact 1380
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 tagggggaga aactgaagc tgattaattc caggaggttt gttcaggtcc cccaaaccac 1860
 cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt 1920
 ttattatggt ttgttacatt gataggatac atactgaaat cagcaaacaa aacagatgta 1980
 tagattagag tgtggagaaa acagaggaaa acttgcagtt acgaagactg gcaacttggc 2040

```

tttactaagt tttcagaactg gcaggaagtc aaacctatta ggctgaggac cttgtggagt 2100
gtagctgata cagctgatag aggaactagc caggtggggg cttttccctt tggatggggg 2160
gcataatcga cagttattct ctccaagtgg agacttaagg acagratata attctccctg 2220
caaggatgta tgataaatatg tacaaagtaa ttccaactga ggaagctcac ctgataccta 2280
gtgtccaggg tttttactgg ggggtctgtag gacgagtatg gagtacttga ataattgacc 2340
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cagatgtaca aaaacaggga ttcatcacia atcccatctt tagcatgaag ggtctggcat 2460
ggccraaggc cccaagtata tcaaggcact tgggcagAAC atgccaagga atcaaatgtc 2520
atctccaggg agttattcaa ggggtggccc tttacttggg atgtacaggg tttgagcagt 2580
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aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgctt cttttcacac cattggtgag ggagggatta ccccccggg 2820
gttatgaaga tggttgaaca cccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattccacgc ccagagcagg aggaagctgc acaccatgca ggtgacatg 2940
ggggatgcgc tgggatttgg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggg ggggcaaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
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cccagctgat agaggaagta gccaggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaggtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
          5                      10                      15

```

```

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
          20                      25                      30

```

```

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
          35                      40                      45

```

```

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
          50                      55                      60

```

```

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
          65                      70                      75                      80

```

```

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
          85                      90                      95

```

```

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
          100                     105                     110

```

```

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
          115                     120                     125

```

```

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
          130                     135                     140

```

```

Ala Leu Glu Arg Gly His Leu Val Arg Glu
          145                     150

```

<210> 384
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 384
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 aaagatgtgt ttgttttttg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
 ggggaagggt ccccttttgc ttgcgaagt ccataaccat gagcactact ctaccatggt 180
 tctgcctcct ggccaagcag gctgggttgc aagaatgaaa tgaatgattc tacagctagg 240
 acctaacctt gaaatggaaa gtcttgcaat cccatttgc ggatccgtct gtgcacatgc 300
 ctctgttagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
 tccccaaagac acatccctaaa aggtgtttgt atggtgaaaa cgtcttccct ctttattgac 420
 ccttcttatt tatgtgaaca actgtttgtc tttttttgt tcttttttaa actgtaaaag 480
 tcaattgtga aatgaatat catgcaata aattatgcga ttttttttcc aaagtaaaaa 540
 aaaaaaaaaa aaaaaaa 557

<210> 385
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 385
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 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
 tctcaaaagc atctgctgtc ttogagtacg gacacatcat vactcctgca ttgttgatca 180
 aaacgtggag gtgttttttc tcagctaaga agcccttagc aaagctcga atagacttag 240
 tateagacag gtccagtttc cgcaccaaca cctgctggtt ccttgtctgt gtctggatct 300
 ctttggccac caattccccc ttttccacat ccgggca 337

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386
 gggcccgcta ccggcccagg ccccgctctg cgagtctctc tcccgggtg cctgcccga 60
 gccgcctcgg ccagaggggt gggcgccggg ctgcctctac cggctggcgg ctgtaacctca 120
 ggcaccttgg ccgaaggct ctagcaaggc cccaccgacc ccagcccgcg cggcgggggc 180
 ggggacttgg cccggtgtgt ggggcggagc ggaactgctg tccgcggacg ggcagcgaag 240
 atgttagcct tggctgcag gacgctggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 387
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 cccctctctg tgcctcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggtctctg ggcggtgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctct agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaaagctca gggcagggct gtccctctgg 300
 ggggcccagc acttctctag acacaacttc tctctgtctg tccagtcgtg gggateatca 360
 cttaccacac ccccaagttc aagaccaaat ctccagctg ccccttctgt gtttccctgt 420
 gtttctgtga gctgggcatg totccaggaa ccaagaagcc ctccagctgg tgtagtctcc 480
 ctgacctgtg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

<210> 388
 <211> 520
 <212> DNA
 <213> Homo sapiens

```

<400> 388
aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aatgtcatg 60
tgaggttaaa ccagttttgca ttccctaat gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
ggacccccctc cccaacatgc cccagccccc cctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcctccc atactagact catactcaac tcaactaggc 360
tcatactcaa ttgatgggta ttagacaatt ccatttcttt ctggttatta taacacagaaa 420
atctttctct ttctcattac cagtaaagge tcttggtatc tttctgttgg aatgatttct 480
atgaacttgt ctatatttaa tgggtgggttt tttttctggt 520
  
```

<210> 389
 <211> 365
 <212> DNA
 <213> Homo sapiens

```

<400> 389
cgttgcccca gttagacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gagttaaaggc tggatttcag atctgcctgg ttccagccgc agtgtgcctt ctgctcccc 120
aacgaatttc caataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttctctct ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365
  
```

<210> 390
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(221)
 <223> n = A,T,C or G

```

<400> 390
tgctctcca tctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggntt ctcatgggtg tggaacatct ctgcttgagg ttccaggaag gcctctggct 120
gctctangag tctgancga ntggttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gggggagtgg aggagttcag gctggatttc a 221
  
```

<210> 391
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(325)
 <223> n = A,T,C or G

<400> 391

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tggagcaggt cccgaggcct ccttagagcc tggggccgac tctgtgncca tgcangcttt 60
ctctccggcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcca acagccagtc cnaataccat catgtacccc ggtggctctt 180
naanttgat ntccanagcc ctaccocatn tagttctgct ctcccacogg ntaccagccc 240
cactgcccag gaatccataa gccagtaccc tgtcccgacg tctctaccta ccagtaogat 300
gagacctccg gctactacta tgacc 325

```

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

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atattgttta actccttccct ttatatcttt taacattttc atggngaaaag gttcacatct 60
agtctcactt nggcnagnn ctctactctg agtctcttcc cgggcctgmn ccagtnghaa 120
antaccanga accgncatgn ctttaanaen nctgggtttn tgggttnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaggtctca cagtgggggg 240
ctgaggatcc agcgccgggt cctgtgttgc tggggaa 277

```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

```

actagtcacg tgtgggtggaa ttccggggccg cgtcgacgga caggtcagct gtctggctca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcctga ttaaatccag cctaaacggt 120
ttgcccggaa cactgcagag acaatgctgt gagtctccaa ccttagccca tctgcgggca 180
gagaaggctct agtttgtcca tcagcattat catgatctca ggactgggta ctgtgttaag 240
gaggggtcta ggagatctgt cctttttaga gacaccttac ttataatgaa gtatttggga 300
gggtgggttt caaaagttag aatgtcctgt attccgatga tcatcctgta aacattttat 360
catttattaa tcatccctgc ctgtgtctat tatttatctc atatctctac gctggaaaact 420
ttctgectca atgtttactg tgcctttggt ttgtctagtt tgtgttgttg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagttatct taatctatac aattaaaagc 540
ttttgcttat caaaaaaaaa aaaaaa 566

```

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```

gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaatng gaccgggcca aggcctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgct actgtagacc ccaaatacca 180
tcccagatt atcgggagaa agggggcagt aattacccaa atccgggttg agcatgacgt 240
gaacatccag tttcctgata aggaagatgg gaaccagccc caggaccaa ttaccatcac 300
agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360

```

tgagcagatg gtttctgagg acgt 384

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

```
ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagagggt ttcatcattg cggaaattgt ggagctaaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagetaact gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctcactacag acctctgacc atgggaaggt 360
gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399
```

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

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tggagttctc agtgcaaca agccataaag ctccagtagc aaattactgt ctccagaaaa 60
gacattttca acttctgctc cagctgctga taaaaaaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcatlaact tctagagaaa aaaaggagtt gttagtagat 180
actaasaaaa gtggatgaat aatctggata ttttctctaa aaagattcct tgaaacacat 240
taggaaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaagaa ggaanaaaag aagagtgaga aaacctatct 360
atcaaagcag gtgctatcac tcaatgttag gcoctgctct ttt 403
```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397

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actagtnacg tgtggtggaa ttccgggccc cgtcgacctc naanccatct ctatagcaaa 60
tccatccccc ctcttggttg gtnacagaat gactgacaaa 100
```

<210> 398

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G


```

<400> 398
gggggcggcgt agacagcagt tccgccagcgg ctggcccttg ggtgggggatg tggcgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgaggtgg actcatcatg 180
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggcgcg ttcattangt ggtccaacaa ggagaagg 278

```

```

<210> 399
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

```

```

<400> 399
acggaggtgg aggaagcgnc cctgggatcg anaggatggg tctgncatt gacnccctcn 60
ggggtgcgag catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
cagagatcga ggcgatgggc cgggtcatgg acccgatggg ctccgtggag cgcgtgggct 180
ccggcattga ggcgatgggc cgggtgggnc tggaccacat ggcctccanc attganccga 240
tgggcccagac catggagcgc attgggtctg ggcgtggagcn catgggtgcc ggcgtggg 298

```

```

<210> 400
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<400> 400
acatcaacta cttccctcatt ttaaggatat gcagttccct tcacccctt ttcctgcctt 60
gtacatgtac atgtatgaaa ttccctcttc taccgaact ctctccacac atcacaaggt 120
caaagaacca cacgcttaga agggtaagag ggcacctat gaaatgaaat ggtgatttct 180
tgagtctctt tttccacgt ttaaggggcc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta ttccatacag gctttgaggc caccatgtr acttatcccg 300
tataccctct caccatccc ttgtctactc tgatgcccc aagatgcaac tgggcageta 360
gttggcccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420
ctttccagtg atctctacc atgggcccc ctcttgggat caagccccct ccaggccctg 480
tcccagccc ctctgccc agcccaccg attgcttgg tgcacgccc tccatttgg 540
agcaggtt 548

```

```

<210> 401
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

```

```

<400> 401
actgtttcca tggatgtgtt ctacacattg ctacctcagt gctcctggaa acttagcirt 60
tgatgtctcc aagtagtcca ctttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatctt agctgttttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgttgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgttgggg tttccaacca ggggaagggt 300

```

ccctttttgca ttgccaaagtg ccataaccat gagcaactact ctaccatggg tctgc 355

<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

atgggggcaag ctgggataaag aaccaagacc cactgggagta tctgtgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggetcea aataaaggaa tggagaaaaa tatttcaagc 120
aatggaaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggaacttac aaagggtggtc ctgacctttg ataatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaac aaaggataa ttgtctgagg 300
ttgtggagct tctccctgc agagagtcct tgatctccca aaatttgggt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca ttccaa 407

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

cagtatttat agcnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaa 60
tccaaagcaa gaccatggc atggtgaasa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcatgaaca aaaaggcaga caaccaatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgctatt tggcacaaca 240
tettaacaac gaccgaacc cattatttac ataacctcc attcggtaac catgttgaag 300
gga 303

<210> 404

<211> 225

<212> DNA

<213> Homo sapiens

<400> 404

aagtgttaact tttaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcatcta cttttacatg gtgaaagtte tctcttgatc ctacaaacag 120
acattttcca ctctgtgttc catagtgttt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgttaata aataaagtat ctttatttca ttcac 225

<210> 405

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(334)

<223> n = A,T,C or G

<400> 405

```

gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggttg tctggaggag 60
ttcaatacac ctccccccat agtgaatcag ctccaggggg gtccagtcoc tctccttact 120
tcatecccat cccatgccaa aggaagaacc tccctccttg gtcacagacc ttctctagga 180
ttcccagttg ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
ctggtgagggt tgtgacctca gcttctgtc agtgcttcat ggacagtgac cagcccatgt 300
cactctccac tctctcanng tggatccccc cccc
334

```

<210> 406

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(216)

<223> n = A,T,C or G

<400> 406

```

tttcatacct aatgagggag ttganatnac atmaaccag gaaatgcatt gatctcaang 60
gaaacaaaca cccaataaac tgggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aatttnatgt tgcaccttg ttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant
216

```

<210> 407

<211> 413

<212> DNA

<213> Homo sapiens

<400> 407

```

gttgacttgc tagtateatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatacat ggaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta caactggcca ctcagggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaggctt tcccatgtta aaagacattt attatcttgt ttctctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atgggocagg ttctgtagta aag
413

```

<210> 408

<211> 183

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(183)

<223> n = A,T,C or G

<400> 408

```

ggagctngcc ctcaattcct ccatntctat gttaacatat ttaatgtctt ttgnnattaa 60
tnccttaacta gtttaactct aaagggctan ntaactctta actagtccct ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatctactcc ttcttggcta cccatgtact 180
nnt
183

```

<210> 409

<211> 250

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 409
 cccacgcacg ataagctctt tatttctgta agtcctgcta ggaaatcact aaatctgaag 60
 gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccata 120
 gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcaggg ccttatctag 180
 gcttccaggt gccccagga cagcgtgggc tatgtttaca ggccttcctt gctggggggg 240
 ggcctatgac 250

<210> 410
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

<400> 410
 ggctgggttg caagaatgaa atgaatgatt ctacagctag gaettaacct tgaatatgaa 60
 agtcttgcaa tcccatthgc aggatccgtc tctgcacatg cctctgtaga gagcagcatt 120
 cccagggacc ttggaaacag ttggcaactgt aaggtgcttg ctccccaaga cacatccata 180
 aaggtgttgt aatggtgaaa accgcttccct tctttattgc cctttcttat ttatgtgaac 240
 nactgggttg ctttttttgn atctttttta aactggaaag ttcaattgng aaatatgaata 300
 tctgtc 306

<210> 411
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 411
 agagatattn cttaggtnaa agtccataga gtcccatga actatatgac tggccacaca 60
 ggatcttttg ttttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
 tttaaatgtc tgaatatgaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
 cttctctcaa gggagggcaa a 261

<210> 412
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(241)

<223> n = A,T,C or G

<400> 412

```
gttcactggtt acctgacatt tctacaseac cccactcacc gatgtattcg ttgcccagtg 60
ggaaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggtctccac aaacataaac cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactgggtt cattgaatte ccasactacc cangcaatta cccagccaac 240
a                                     241
```

<210> 413

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 413

```
aactettaca atccaagtga ctcactctgtg tgcttgaate ctttccactg tctcatctcc 60
ctcatccaag ttctagtac cttctctttg ttgtgaagga taatcaaaact gaacaacaaa 120
aagtttactc tctctatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aalcanttct cagatcattg gggacaccan atcaggaacc t          231
```

<210> 414

<211> 234

<212> DNA

<213> Homo sapiens

<400> 414

```
actgtccatg aagcactgag cagaagcttg aggcacaaag caccagacac tcacagcaag 60
gatggagctg aaacataaac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gaggggagggt cttccttttg catgggatgg ggatgaagta aggagagggg 180
ctggaccccc tgggaagctga ttcaactatg ggggaggtgt attgaagtcc tcca      234
```

<210> 415

<211> 217

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(217)

<223> n = A,T,C or G

<400> 415

```
gcattaggatt aagactgagt atcttttcta cattctttta actttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgcctaaagg ntctaccac cactttctca 120
caactagcaa tagtgaatt cagtctact tctgaggcca gaagaatggt tcagaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc          217
```

<210> 416

<211> 213

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(213)
 <223> n = A,T,C or G

<400> 416
 atgcataatnt aaaggaact gctcgccttt tagaagacat ctggcctgct ctctgcctga 60
 ggcacagcag taagctcttt tgatcccccag aatcaagaae tctccccttc agactattac 120
 cgaatgcaag gtgggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
 atattggaac agatggagtc tctactacaa aag 213

<210> 417
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 417
 nagttcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
 gtgggaaagg ctctactctg agttcaaatc ttcaagccca tcagagagtc cacactggag 120
 agaagccata caaatgcaat gagtgtggga agagcttcag gagggtattcc cattatcaag 180
 ttctctctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
 tcantcaag ttctgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
 agt 303

<210> 418
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 418
 tttttggcgg tgggtgggca gggaggggac angagtctca ctctgttgcc caggctggag 60
 tgcacaggca tgatctcggc tcaactacaac cctgcctctc catgtccaag cgattcttgt 120
 gccacagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
 gtattttttag tagagacagg gtttcaccat gttggccagg ctgggtctca actcctnacc 240
 tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
 aaagtgtctn gattacaggc egtgagcc 328

<210> 419
 <211> 389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(389)
 <223> n = A,T,C or G

<400> 419
 cctctctcaag aaggcctgtg gtcgcctctc eggcaaccaa gaagcctgca gtgccatatg 60

```

acccctgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcctgctg 120
cttgttttct ctctgtggct ccattcatag cacagttggt gcactgagge ttgtgcagge 180
cgagcaagge caagctgggt caaagagcaa ccagtcact ctgccaggt gtgccaggca 240
ccggttctcc agccaccaa ctcactcgtt ccgcgaatg gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360
tggcagccac tcnngctgtg tcgacgcgg 389

```

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

```

gttctctcta actcctgcc aacacagctc tctcaacat gagagctgca cccctctctc 60
tggccagggc agcaagcctt agccttgggt tctgttttct gcttttttct tggctagacc 120
gaagtgtaact agccaaaggag ttgaagtttg tgacttttgg gtctcgccat ggagaccgaa 180
gtcccatatga cacttttccc actgacccca taaagggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaaa attcttgaat ggtctctata aacatgaaca ggttatattt cgaagcaccg 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccg 408

```

<210> 421

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```

gtcctaaaat ctttttactg atnggcctgg ctacacaatc attgactatt agggagggcca 60
gaggagaatg aggcctggcc tgggagccct gtgctacta naagcactt agattatcca 120
ctcactgaca gaacagggtct tttttgggtc ctctctctcc accacnatac acttgcagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg ttctgtagca agtgcctgtc tcacaagttg gcangtctgc 300
cactccaggt ttattgggtg ttgtttctt ttgagatcca tgcatttctt gg 382

```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```

atgccaccat gctggcaatg cagcggggcg tgaaggcct gcataccag cccagctgg 60
cgatgatcga cggcaaccgt tgcgcgaagt tgcgatgct agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgcggggc atcgcgggcg cgtcaatcct ggcgaaggct agcctgtatc 180
gtgaataggc agctgtcgaa ttgatctacc cgggttatgg catcgggcggt cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gcgcagcccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1) ... (310)
 <223> n = A,T,C or G

<400> 423
 gctcaaaaat ctttttactg ataggccatg gctacacaat cattgactat tagagggccag 60
 aggagaatga ggccctggcct gggagccctg tgccctactan aagcncatta gattatccat 120
 tcaatgacag aacaggtctt ttttgggtcc tcttctccca ccacgatata cttgcagtc 180
 tcctttctga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
 gtgcacacatg aaattttctgt ttogtagcaa gtgcattgtct cacagttgtc aagtctgccc 300
 tccgagttta 310

<210> 424
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (370)
 <223> n = A,T,C or G

<400> 424
 gctcaaaaat ctttttactg ataggccatg gctacacaat attgactatt agagggccaga 60
 ggagaatgag ggcctggcctg gggagccctgt ggcctactaga agcacattag attatccatt 120
 caatgacaga acaggtcttt ttttgggtcct tcttctccac cccgatatac ttgcagtcct 180
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
 gggtgaatct cctggaaact cctcattagg tatgaatatag catgatgcat tgcataaagt 300
 caagaagggtg gcaaaagatca caacgtctgc cagganaaca ttcattgtga taagcaggac 360
 tccgtcgacg 370

<210> 425
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (216)
 <223> n = A,T,C or G

<400> 425
 aattgctatn nttaattttg ccactcaaaa taattaccac aaaaaaaaaa tnttaaatga 60
 taacaacnca acatcaaggc aaananaaca ggaatggntg actntgcata aatngggcca 120
 anattatcca ttatnttaag gggttgacttc aggtacagc acacagacaa acatgcccag 180
 gaggntntca ggacgctcg atgtntntg agggag 216

<210> 426
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 426
 cttccagtga ggataacct gttgccccgg gcagagggtc tccattagcc tctgattgat 60
 tggcagtcag tgatggaagg gtgtttctgat cattccgact gcccgaaggg tgcctggcca 120
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
 getgtccttg tattttgatt aacctaatgg ccttcccagg acgactcgga ttcagctgga 240
 gacatcaggc caacttttaa tgaatgatt tgaagggcca ttaagaggca cttcccgtta 300


```

ttaggcagta catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtaggatggc cttttcagct ttaacctaat ttgcactgcc ttggaaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagagge cacagcagat gtcattgggc tactgectga 540
gtcccgctgg tcccatccca ggaccttcca tggcgagta cctggggagcc cgtgct 596

```

<210> 427

<211> 107

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(107)

<223> n = A,T,C or G

<400> 427

```

gaagaattca agttagggtt attcaagggt cttacngaga atcctanacc caggccccag 60
ccggggagca gccttanaga gctcctgttt gactgcccgg ctccagng 107

```

<210> 428

<211> 38

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(38)

<223> n = A,T,C or G

<400> 428

```

gaacttcena anaangactt tattcaactat ttacacatt 38

```

<210> 429

<211> 544

<212> DNA

<213> Homo sapiens

<400> 429

```

ctttgcttga cggatataaaa gtggacgcac gcattgacct ctgatgaggg cgtgcatttt 60
attgaagagc ggctgcagcc ctggcggttca gattaaaaac cgagaattgt atagacgcgc 120
atatccacga actcttgaag gactttctga ttatccaca atcaaatcat cggttttcag 180
tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactogtt 240
gccttcact tcagttacac ctcaactcac atcctctcct gttggttctg tgcctgttca 300
agatactaag cccacatttg agatgcagca gccatctccc ccaattcttc ctgtccatcc 360
tgatgtgcag tcaaaaaaac tgccttttta tgatgtcctt gatgtttctc tcaagcccac 420
gagtttagtt caaagcagta ttccagcatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gtttagagaga tatgcataac cagggatttt ttgccaggtg gtaggagaga 540
ttat 544

```

<210> 430

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 430

```

cttatcncaa tggggctccc aaacttgget gtgcagtgga aactccgggg gaattttgaa 60
gaacactgac acccatotte caccocgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaaagct gcccagaatg ttntcctggg cagcgttggt atctttgcon 180
ccttcgtgac tttatgcaat gcacatgctt atttcatacc taatgagggg gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaaactgc aaagaaatnt 300
caagaaggag gactgcaggt atatcgtggt ggagaaagag gacccaaaaa agacctgttc 360
tgtcagtgaa tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaaa

```

<210> 431

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(392)

<223> n = A,T,C or G

<400> 431

```

gaaaattcag aatggataaa aacaaatgaa gtacaaaaata ttccagattt acctagggat 60
aaacaagaaa gcacttatca ggaggactta caaatggaaag tacactctan aaccatcttc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaaac ccaggagttt tgtgtgtgga gtccctgggt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgtgtttagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcctttac tctgctggtt ct

```

<210> 432

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(387)

<223> n = A,T,C or G

<400> 433

```

ggtatccta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaggg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaaacct 180
gtggacsetn ttgttgnatt gtctgaactg tagngccctg tatcttgctt ctgtctgnga 240
attctgttgc ttctggggca ttctcttgng atgcagagga ccaccaacaa gatgacagca 300
atctgaattg ntccaatcac agctgogatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtcccttt

```

<210> 433

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(281)

<223> n = A,T,C or G

<400> 433

```
ttcaactagc anagaenaact gtttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggncctat ttgggttggc tggaggagct gtggaaaaa tggagagatt gggtctggag 180
atcgcggtgg ctattcctcn ttgntattac accagngaggt ntctctgtnt gcccactggt 240
ttnnaaaacpg xtatacaata atgatatgaat aggcacacac t 281
```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```
ttttaaaata agcattttagt gctcagtcct tacttgagtae tctttctctc ccttctctctg 60
aatttaarto ttccaacttg caatttgcac ggattacaca tttcactgtg atgtatatag 120
tgtttgcaaaa aaaaaaaagt gtctttgttt aaatttactt ggtttgtgaa tccatcttgc 180
tttttcccca ttgggaactag tcatttaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatgggtc tcagaacctt tcaaccaga 300
cagcctgttt ctatctctgtt taataaatta gtttgggttc tctacatgca taacsaaccc 360
tgctccaatc tgcacataa aagtcctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccctatgtc 480
ttta 484
```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```
gggcgcctca gaggaggtca ctttctgcct tccaagtcct ccttcaagga agccccatgt 60
gggtagcttt caatatgca ggttcttact cctctgctc tataagctca aacccaccaa 120
cgatcgggca agtaaaaccc ctccctcgcc gacttcggaa ctggcgagag tttagcgtag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcattggtc ggggtgaccc 240
cttggagaga ggaaaaaggc cacaagaggg gctgcacccg ccactaacgg agatggccct 300
ggtagagacc ttggggggtc tggaaacctc ggactcccca tgcctctaact cccacactct 360
gctatcagaa acttaaacct gaggattttc tctgttttct actcgcaata aattcagagc 420
aaac 424
```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tegttagactt tactccaaat tcaaaaaagg 60
tcttggccat gtaactctga aagttttccc aaggtagcta taaaatcctt ataaggggtc 120
agcctcttct ggaattcttc tgatttcaaa gtctcactct caagttcttg aaaacggagg 180
cagttctctga aagycaggta tagcaactga tcttcagaaa gaggaactgt gtgcacggg 240
atgggtctgc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gocaggttbg tcatagcact catcaaagtc oggtcaaagt ctgtgtttcg aatataaacc 360
```

```

tgttcatgtt tataggactc attcaagaat tttctatata tttttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtcx caaacttcaa ctcttggct agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggettgtt gccctggcag gaggaggggt gcagctctca 660
tgttgag 667

```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```

ctactctcca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgaactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccctac cgggttttgt 120
caaaactcag gttaggagge tgataagctt ggaaggaaet tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtaactct ctattttcac cctcttggct tctaactctt ggcagtcaga cctgtgggag 300
gccatgggag aaageagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttaccta ggtgtcacta ttggggggac agccagcttc tttagcttcc 420
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acaactaaet gctgttgctc ctgaggtggt gaaagacaga tatagagctt acagtattta 540
tctattttct aggcactgag ggcgttgggg taacttgttg tgccaaaaca gatcctgttt 600
taaggacatg ttgtctcaga gatgtctgta actatctggg ggcctctgtt gctctttacc 660
ctgcactatg tgcctctctt gctgaaaatg acc 693

```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```

ctgcttatca caatgaatgt tctctgggc agcgttgtga tctttgccac ctctgtgact 60
ttatgcaatg catcatgcta ttctataact aatgaggggg ttcaggagga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataactcaa tgtgcttcta gtaggcacag ggcctccagg ccaggcctca ttctctctg 300
gcctctaata gtcaataatt gtgtagccat gccatcagt aaaaagattt ttgagcacaac 360

```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439

```

gttcttntta actcctgccx gaaacagctc tcttcaacat gagagctgca cccctectcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttct tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccatgta caactttccc actgaccca taaagggaat ctcctggcca caaggtattg 240
gccaaactca cagcttgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaaat gagtctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccttoga cgcggccgag 420
aatttagtag t 431

```

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaatatgaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggtgatggg caaaaaacca atttaccgat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaaa tgetactate tgtttttata ttctgttaa aatatatgag gctacagaa 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaac tttatgttcc ttttaaaaga 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaaat agtcctctga tgagaacaag cta 523
  
```

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

```

<400> 441
gttctctcta actcctgcca gaaacagctc tcttcaacat gagagctgca cccctctctc 60
tggccagggc agcaagcctt agccttggtt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacttttccc actgacccca taaaggaaac ctcatggcca caaggatttg 240
gccaaactcc ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgag 420
aatttagtag 430
  
```

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

```

<400> 442
ctaaggaaat agtagtgttc ccatcacttg ttgggagtgt gctattctaa aagattttga 60
tttcttggaa tsacatttat attttaactt tgggtggggg aagagttata ggaccacagt 120
cttcaacttc gatacttgta aattaactct ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt taaggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362
  
```

<210> 443
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

```

<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
  
```

```

ctgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tglaaagagc agaaagcaat tcaggtacc ctgecttttg 180
tgcgtgctag tactcgggc ggtgtcagca gcaogtggca ttgaacattg caatgtggag 240
cccaaacac agaaaatggg gtgaaattgg ccaactttct attaacctgg ctteectgtt 300
tataaaatat tgtgaataat atcaccctact tcaaggggca gttatgaggc ttaaatgaac 360
taacgcctac aaaaacacta aacatagata acataggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaggtcaac gctaaaatga atgtgtgtgc atatgctaac 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaaaggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaaact 600
ttgtccctat ctgctaaca gac 624

```

```

<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

```

```

<400> 444
gcacatcatt nntcttgcct tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccagggcctgt gtgtgaaccc aatgtttttgc ttagaatatag aacaagttaag 120
ttcattgcta tagcataaca caaaattttgc ataagtggtg gtcagcaaat ccttgaatgc 180
tgcttaattgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgcacagaca ggcgaagctg gctgaagag caaccagcca 300
cctctgcaat ctgcaacctc ctgctggcag gatttgtttt tgcctcctgt gaagagccaa 360
ggaggcacca gggcataagt gactagactt atggtcgacg cggccgcgaa tttagtagta 420
gtaga 425

```

```

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

```

```

<400> 445
catgtttatg nttttggatt actttgggca cctagtgttt ctaaatcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtgc agattattgg atgtagtctt cttaactag catataaata 180
tggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacatttgc 240
aatgaaaaat tgtgtctcta gattatgtaa caataaacta ttccctaacc attgatcttt 300
ggatttttat aatcctactc acaaatgact aggtctctcc tottgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaaag tcgacgcggc cgcgaattta gtag 414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(631)

```

<223> n = A,T,C or G

<400> 446

```
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
ctgtcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttgttc 180
ccggtectgt acgatttcag tatgtcttaa tgcagctgtt gatttgaaca attcagattg 240
ctgtcatctg tgtgggtggtc ctctgcacac caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaccttc caaccttcca ggaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacacac aacaagagcg tccacgaggt 420
taactctaaag ggagcatgtt tcacagtggtc tggactaccg agagcttggc ctacacata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttgttgt 540
aatctacacc aatgaaaaca tgtactacag ctatatgtga ttatgtatgg atatatgtga 600
aatagtatac attgtcttga tgtttttct g 631
```

<210> 447

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(585)

<223> n = A,T,C or G

<400> 447

```
ccttgggaas antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatectgaa agttttccca aggtagctat aaatccctta taagggtgca 120
gcctcttctg gaattctctt gatttcaaaag tctcactctc aagttcttga aaacgagggc 180
agttctctgaa aggcaggtat agcaactgat ctccagaaag aggaactgtg tgcacgggga 240
tgggtctgcc gagtaggata ggattccaga tgcagacacc ttctggggga aacagggctg 300
ccaggtttgt catagcaact atcaaaagtcc ggtcaaagtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctctcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgaattggcc aaatecttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaaaggtg caatgggact tgggtctcca tgcggaaaca 540
ccaaagtcac aaacttcac ccttggcta gtacacttcg gtcta 585
```

<210> 448

<211> 93

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(93)

<223> n = A,T,C or G

<400> 448

```
tgetcgtggg tcattctgan nncgaaactg acntgcccag ccttgcogan gggcnnccat 60
ggctccctag tgccttgag agganggggc tag 93
```

<210> 449

<211> 706

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(706)

<223> n = A,T,C or G

<400> 449

```

ccaagttcat gctntgtgct ggacgctgga caggggggcaa aagcnnthgc tcgtgggtca 60
ttctgancac cgaactgacc atgcccagccc tgcgcatggc cctccatggc tccttagtgc 120
cctggagagg aggtgtctag tcagagagta gtcttggaaag gtggcctctg ngaggagcca 180
cgggggacagc atcctgcaga tggtcggggcg cgtcccattc gccattcagg ctgcgcacact 240
gttggaaggg gcgactgggtg cgggcctctt cgtatttaac ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaaagc caggggttttc ccagtcnoga cgttgtaaaa 360
cgaaggccag tgaattgaat ttagggtgacn ctatagaaga gctatgaagt cgcctgcaag 420
cgtacgttaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggcgcgt 480
cgacgtggga tcncactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggtgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggcnc ctgcncccca 660
gcctggatga cagagtgaac ctccatetta aaaaaaaaaa aaaaaa 706

```

<210> 450

<211> 493

<212> DNA

<213> Homo sapiens

<400> 450

```

gagacggagt gtcactctgt tgcacagget ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttta aaggtaaaaa aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgagggt gagaaactta caaagggatc ttacagacat gtcgccaata tcactgcatg 180
agcctaagta taagaacaac ctttggggag aaacacatct ttgacagtga ggtacaattc 240
caagtcagggt agtgaatatg gtggaattta actcaaatat atcctgccag ctgaaaacga 300
agagacactg tcagagaggtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactccat tgcagagggg cgaaggggcc 480
gcgaatttag tag 493

```

<210> 451

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 451

```

gggcgcgtcc cattcgccat tcaggctgag caactgttgg gaagggcgat cgggtgcggc 60
ctcttgccta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
aacgccaggg ttttccaggt cncgacgttg taaaaacgac gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtgcgat gcacgcgtac gtaagcttgg atcctctaga 240
gggcgcgctt actactacta aattcggggc cggctcgacg tgggtatcnc actgagagag 300
tggagagtga catgtgtggt acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
cgncacagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
gttgcaatga gctgagatca ggccnctgcn cccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

<210> 452

<211> 51

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = A,T,C or G

<400> 452
 agacgggttcc accnttacaa cnccttttag gatggggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
 acatctgaag agctagteta tcagcatctg gcaagtgaaat tggatgggttc tcagaaccat 120
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaccc tgcctcaatc tgccacataa aagtctgtga ctggaagttt atccagcacc 240
 cccacaaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaaataagg 300
 taaccatgtc tttatta 317

<210> 454
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 454
 ttccaggtac aatcaactct cagagtgtag ttctcttcta tagatgagtc agcattaata 60
 taagccacgc caagctcttg aaggagtctt gaattctctt ctgtcacttc agtagaacca 120
 agaagaacca attctctctg atccagctt gcaaacaaaa ttgttctctt aggtctccac 180
 ccttctcttc tcagtgttcc aaagctcttc acaatttcat gaacaacagc t 231

<210> 455
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 455
 taccaaagag ggcataataa tcagtctcac agtaggggttc accatctctc aagtgaaaaa 60
 cattgttccg aatgggtctt ccacaggcta cacacacaaa acaggaaaca tgcgaagttt 120
 gtttcaacgc attgatgact tctccaagga tcttctcttg gcctcgacca cattcagggg 180
 caaagaattt ctctatgcac agctcacaat acagggtctc tttctctctt a 231

<210> 456
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 456
 ttggcaggta cctttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
 ttccattcag tattatcgtt attattcttg gagaaacctt gtctgtttac tctaaccttt 120
 tgcactcaaa ttccttttat aggaataact acatagccac tattttacaaa gccattggaa 180

ccttttttatt tgggtgcagct gctagtcagct ccttgactga cattgccaag t 231

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (231)

<223> n = A,T,C or G

<400> 457

cgaggtaccc aggggtctga aaatctctnn ttatantagtc gatagcaaaa ttgttcacaa 60
gcattccctta atatgatctt gctataatta gatittttctc cattagagtt catcacgttt 120
tatttgatttt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atogatgect ctttccctct gaggtgtctg ttgtttttgt g 231

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

aggtcttggt ccccccactt ccactccctt ctactctctc taggaactggg ctgggccaag 60
agaagagggg tggttaggga agcgtttgag acctgaagcc ccacctctc ccttccctca 120
acacctaac cttgggtaac agcatttggg attatcattt gggatgagta gaatttccaa 180
ggtcctgggt taggcatttt gggggggcag accccaggag aagaagattc c 231

<210> 459

<211> 231

<212> DNA

<213> Homo sapiens

<400> 459

ggtaaccgagg ctgctgaca cagagaaacc ccaaogcgag gaaaggaatg gccagccaca 60
ccttcgcgaa acctgtggtg gccaccagt cctaaogggg caggacagag agacagagca 120
gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcccgctc caatgagaa caagaaggag cccctccac a 231

<210> 460

<211> 231

<212> DNA

<213> Homo sapiens

<400> 460

gcaggtataa catgctgcaa caacagatgt gactaggaaac ggccggtgac atggggaggg 60
cctatcacc cttcttggg ggtgtcttct tcacagtgat catgaagcct agcagcaaat 120
cccacctcc cacaagcaca oggceagcct ggagccaca gaagggctct cctgcagcca 180
gtggagcttg gtccagctc cagtcacccc ctaccaggct taaggataga a 231

<210> 461

<211> 231

<212> DNA

<213> Homo sapiens

<400> 461

cgaggtttga gaagctctaa tctgcagggg agccgagaag caggcggcct agggagggtc 60

```

gcggtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgccctg tgtgtccttg 120
gtgggggttca gtgaggagtg ggaatttggg tcagcagaaac caagccgttg ggtgaataag 180
agggggatttc catggcactg atagagccct atagtctcag agctgggaat t 231

```

<210> 462

<211> 231

<212> DNA

<213> Homo sapiens

<400> 462

```

aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaatg 60
gggtcatgca agtataaaaa ttaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
gaagaactgt tagagagacc aacagggtag tgggttagag atttcagagag tcttacattt 180
tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

```

<210> 463

<211> 231

<212> DNA

<213> Homo sapiens

<400> 463

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catttgacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180
tggggagggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

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<210> 464

<211> 231

<212> DNA

<213> Homo sapiens

<400> 464

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cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
gggtgccagcg caccagctag atgctctgta acttctaggc ccattttcc c 231

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<210> 465

<211> 231

<212> DNA

<213> Homo sapiens

<400> 465

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agyatggcac aatttttgct tgtgttcata atatactcag attagtctag ctccatcaga 180
taaaactggag acatgcagga cattagggta gtgttctagc tctggtaatg a 231

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<210> 466

<211> 231

<212> DNA

<213> Homo sapiens

<400> 466

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cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactatagga 180
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<210> 467
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 467
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<210> 468
 <211> 3112
 <212> DNA
 <213> Homo sapiens

<400> 468
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<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

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<210> 470

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

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<210> 471

<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)...(515)

<223> n = A,T,C or G

<400> 472

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<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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<211> 1594

<212> DNA

<213> Homo sapiens

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<211> 2414
 <212> DNA
 <213> Homo sapiens

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 <222> (33)
 <223> n=A,T,C or G

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 <211> 3434
 <212> DNA
 <213> Homo sapiens

<400> 476

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<212> GAT
<213> Homo sapiens
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Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95

Thr Asp Thr Glu Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                      105                      110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
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Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Glu
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<210> 478
<211> 143
<212> 887
<213> Homo sapiens

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Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
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Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
      35                      40                      45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
      50                      55                      60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
      65                      70                      75                      80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
      85                      90                      95

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His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
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 Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
 115 120 125
 His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
 130 135 140

<210> 479
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 479
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 Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30
 Gly Glu Ile Thr Leu Thr His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80
 Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
 85 90 95
 His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val
 100 105 110
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
 115 120 125
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
 130 135 140
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
 145 150 155 160
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
 165 170 175
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
 180 185 190
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
 195 200 205
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
 210 215 220

<210> 480

<211> 144

<212> PBT

<213> Homo sapiens

<400> 480

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Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
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Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
      20                      25                      30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
      35                      40                      45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
      50                      55                      60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
      65                      70                      75                      80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
      85                      90                      95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
      100                     105                     110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
      115                     120                     125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
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<210> 481

<211> 167

<212> PBT

<213> Homo sapiens

<400> 481

```

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
      5                      10                      15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
      20                      25                      30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
      35                      40                      45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
      50                      55                      60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro

```

168

65		70		75		80									
Cys	Pro	Ala	Ala	Ser	Glu	Val	Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg
				85					90					95	
Ala	Leu	Ala	Glu	Val	Thr	Gly	Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala
			100					105					110		
Gln	His	Ala	Gln	Ala	Ser	Val	Leu	Leu	Leu	Cys	Tyr	Lys	Trp	Ser	His
			115				120						125		
Ile	Gly	Glu	Thr	Ser	Ser	His	Leu	Arg	Ser	Lys	Val	Tyr	Ala	Ala	Phe
			130				135					140			
Gly	Gly	Ser	Ser	Pro	Cys	Leu	Lys	Gly	Leu	Met	Ser	Leu	Trp	Ala	Ser
145					150					155					160
Trp	Leu	Ser	Arg	Gly	Arg	Pro									
					165										

<210> 482

<211> 143

<212> PRT

<213> Homo sapiens

<480> 482

Met	Glu	Pro	Tyr	Arg	Gly	Asn	Lys	Lys	Gln	Val	Gln	Glu	Lys	Gly	Val
				5					10					15	
Pro	Cys	Leu	Trp	Gly	Ser	Ser	Pro	Cys	Leu	Arg	Cys	His	Met	Ala	Leu
			20					25					30		
Arg	Ala	Ser	Trp	Leu	Pro	Gly	Gly	Gly	Pro	Gln	Ala	Ile	Leu	Gly	Arg
			35				40					45			
Thr	Leu	Cys	Ser	Ser	Ala	Glu	Ser	Ser	Gln	Asp	Cys	His	Pro	Gly	Gly
			50				55				60				
Pro	Ser	Ile	Ala	Leu	Ala	Lys	Pro	Cys	Arg	Gly	Val	Trp	Leu	Leu	Phe
			65			70				75					80
Glu	Pro	Ala	Trp	Pro	Pro	Trp	His	Ala	Arg	Ala	Pro	Gly	Ala	Gly	Thr
			85					90						95	
Leu	Leu	Arg	Val	Cys	Leu	Ser	Cys	Leu	Gly	Cys	His	Leu	Cys	Gly	Gly
			100					105					110		
Ala	Ser	Gly	Gly	Gly	Gly	Pro	Ala	Thr	Asn	Leu	Thr	Gln	Ser	Arg	Lys
			115				120					125			
Trp	Met	Ala	Met	Phe	Pro	Gln	Pro	Glu	Trp	Leu	Pro	Pro	Asp	Gly	
			130				135					140			

<210> 483

<211> 143

<212> PRT

<213> Homo sapiens

<400> 483

```

Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5              10              15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
      20              25              30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
      35              40              45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
      50              55              60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
      65              70              75              80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
      85              90              95

Ala Gly Pro Gly Trp Leu Lys Gln Gln Pro Ala Thr Ser Ala Arg Val
      100             105             110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
      115             120             125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
      130             135             140

```

<210> 484

<211> 30

<212> PRT

<213> Homo Sapien

<400> 484

```

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
  1              5              10              15

Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
      20              25              30

```

<210> 485

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 485

gggaagctta tcacctatgt gccgcctctg c

31

<210> 486

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 486

gagaattctc acgtcgagta ttggcc

37

<210> 487

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 487

ccgaattct tagctgccca tccgaacgcc ttcata

38

<210> 488

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 488

gggaagcttc tccccgggt gcaccagctg tgc

39

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala

1

5

10

15

Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys

1

5

10

15

Leu Ser His Ser

20

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

<210> 492

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 492

Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
 1 5 10 15
 Leu Ala Ser Leu
 20

<210> 493

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 493

Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
 1 5 10 15
 Lys Tyr Arg Gly
 20

<210> 494

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 494

Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
 1 5 10 15
 Leu Met Ile Ser
 20

<210> 495

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 495

Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro
 1 5 10 15
 Phe Pro Asn Gly
 20

<210> 496

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 496

Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 497

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 497

Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
 1 5 10 15
 Ser Val Arg Val
 20

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 498

Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
 1 5 10 15
 Val Pro Gly Arg
 20

<210> 499

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

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<223> Made in a lab

<400> 499
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 1             5             10             15
Ser Ala Phe Leu
      20

<210> 500
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 500
Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1             5             10             15
Gly Ser Ile Val
      20

<210> 501
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 501
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1             5             10             15
Val Ser Ala Ala
      20

<210> 502
<211> 414
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

<400> 502
caccatggag acaggcctgc gctggctttt cctggctgct gtgctcaaag gtgtccaatg      60
tcagtcgggtg gaggagtcgc ggggtcgctt ggtaacgctt gggacacctt tgacantcac      120
ctgtagagtt tttggaatcg acctcagtag caatgcaatg agctgggttc gccaggctcc      180
agggaaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc      240
gaaaggccga ttatnatatt ccaaaacctn gaccaagggtg gatttgaaaa tgaccagtc      300
gacaaccgag gacaaggcca cctatttttg tggcagaatg aatactggtg atagtgggtg      360
gaagaatat tggggcccg gcacctggt caccgtntcc tcagggcaac ctaa      414

<210> 503
<211> 379
<212> DNA

```

<213> Homo Sapiens

<220>

<221> misc_feature

<222> (1) ... (379)

<223> n = A,T,C or G

<400> 503

atnogatggt	gcttggtcaa	aggtgtccag	tgtcagtcgg	tggaggagtc	cgggggctgc	60
ctggtcacgc	ctgggacacc	cctgacactc	acctgcaccg	tntctggatt	ngacatcagt	120
agctatggag	tgagctgggt	cggccaggct	ccagggaaagg	ggctgggnata	catcggatca	180
ctagttagtag	tggtacattt	tacgcgagct	gggcgaaagg	cgaattcacc	atttccaaaa	240
cctngaccac	ggtggatttg	aaaatcacca	gtttgacaa	cgaggacacg	gccacctatt	300
tatgtgccag	aggggggttt	aattataaag	acatttgggg	cccaggccacc	ctggtcaccc	360
tntccttagg	gcacccctaa					379

<210> 504

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 504

Gly	Phe	Thr	Asn	Tyr	Thr	Asp	Phe	Glu	Asp	Ser	Pro	Tyr	Phe	Lys	Glu
1			5					10						15	
Asn	Ser	Ala													

<210> 505

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 505

Lys	Glu	Asn	Ser	Ala	Phe	Pro	Pro	Phe	Cys	Cys	Asn	Asp	Asn	Val	Thr
1			5					10						15	
Asn	Thr	Ala	Asn												
				20											

<210> 506

<211> 407

<212> DNA

<213> Homo Sapien

<400> 506

atggagacag	gootgogctg	gatttctctg	gtcgtctgog	tcaaagggtg	ccagtgtcag	60
togctggagg	agtcgggggg	tcgcttggtc	acgcctggga	cacccctgac	actcaccctgc	120
acogtctctg	gatttctcct	cagtagcaat	gcaatgatct	gggtccggcca	ggctccagggg	180
aaggggctgg	aatacatcgg	atacattagt	tatgggtggt	ggcctactta	cgcgagctgg	240
gtgaaaaggcc	gattcaccat	ctccaaaacc	tgcaccacgg	tggtatctgag	aatgaccagt	300
ctgacaacgg	aggacacggc	cacctatttc	tgtgccagaa	atagtgattt	tagtggatag	360
ttgtgggggc	caggcacctt	ggteaccgtc	tectcagggc	aacctaa		407

<210> 507
 <211> 422
 <212> DNA
 <213> Homo Sapien

<400> 507
 atggagacag gcttgegetg gcttctectg gtegetgtgc tcaaaggtgt ccagtgtcag 60
 tcggtggagg agtcggggg tcgcctggtc acgcctggga caccctgac actcacctgt 120
 acagtctctg gattctccct cagcaactac gacctgaact gggtcggcca ggctccaggg 180
 aaggggctgg aatggatcgg gacattaat tatgttggta ggacggacta cgcgaactgg 240
 gcaaaaggcc gggtccacct ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
 ccgacaaccg aggcacgggc caccatattt tgtgccagag ggtggaagtg cgatgagttt 360
 ggtccgtgtc tgcgcattct gggcccaggc accctgggtc ccgtctcctt agggcaacct 420
 aa 422

<210> 508
 <211> 411
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> misc_feature
 <222> (1) ... (411)
 <223> n = A,T,C or G

<400> 508
 atggagacag gcttgegetg cttctectgg tgegetgtgc caaaggtgtc cagtgtcagt 60
 cgggtggagg gtccgggggt cgcctgggtc cgcctgggac acccctgaca ctccacctgca 120
 cagtctctgg aatcgacctc agtagctact gcctgagctg ggtccggccag gctccagggg 180
 aggggctgga atggatcgga atcattggta ctctgggtga cactactac gcgaggtggg 240
 cgaaaggccg attcaccatc tccaaaacct cgaccacggc gcatttgaaa atccccagtc 300
 cgacaaccga ggacacgggc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
 ctggttatta taaaattctg gggcccaggca cctgggtcac cgtctccttg g 411

<310> 509
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 509
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 510
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
1 5 10 15

<210> 512
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 512

Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
1 5 10 15

<210> 513
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 513

Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
1 5 10 15

<210> 514
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 514

Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1 5 10 15

<210> 515
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 515
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1 5 10 15

<210> 516
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 516
Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
1 5 10 15

<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 517
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1 5 10 15

<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1 5 10 15

<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 519
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
1 5 10 15
Gly

<210> 520
<211> 25
<212> PRT
<213> Artificial Sequence

220

Q23) Made in a lab

400 520

Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
1 5 10 15
Glu Ala Arg Arg His Tyr Asp Glu Gly
20 25

«220» 531.

2022. 25

«212» PRT

«213» Artificial Sequence

~~220~~

223 Made in a Lab

0000 0000

```

Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1              5              10              15
Pro Pro Pro Pro Ala
              20

```

210 22

0011 20

213 503

«313» Artificial Sequence

220

«223» Made in a lab

000000 0000

Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
1 5 10 15
Phe Thr Gln Val
20

4200 552

222 223

03120 PR3

e213: Artificial Sequence

~220~

2234 Made in a lab

4220

<221> VARIANTS

«222» (1) ... (254)

e223: Xaa = any amino acid

400 929

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10						15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35				40						45			

```

Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
  50          55          60
Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
  65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
        100        105        110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
        115        120        125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
        130        135        140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
        145        150        155        160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
        195        200        205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
        210        215        220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
        225        230        235        240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

```

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

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<400> 524
atggccacag caggaaatcc ctggggctgg ttctgggggt acctcactct tgggtgtcgca -60
ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagcccgcac 120
tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgtct gggcgctctg 180
gtgcatecgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggt 240
ctgggctctg acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 300
ctctccgtac ggcacccaga gtacaacaga ccttctgtcg ctaacgacct catgctcatc 360
aagttggacg aatccgtgtc caggtctgac accatccgga gcctcagcat tgccttcgag 420
tgccctaccg cggggaaactc ttgcctcggt tctggctggg gtctgtctggc gaacggcaga 480
atgcttaccg tgcctgcagt cgtgaacgtg ttgggtggtg ctgaggaggt ctgcagtaag 540
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
gtgtcttttc gaaaagcccc gtgtggccaa gttggcggtg caggtgtcta caccaacttc 720
tgcaaatcca ctgagtggat agagaaaacc gtccaggcca gttaa 765

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<210> 525
 <211> 254
 <212> PRT
 <213> Homo sapien

```

<400> 525
Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
  1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
        20        25        30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu

```

	35		40		45										
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50		55		60										
Trp	Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65		70		75	80										
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
	85		90		95										
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
	100		105		110										
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
	115		120		125										
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130		135		140										
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145		150		155	160										
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Gln	Glu
	165		170		175										
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
	180		185		190										
Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
	195		200		205										
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210		215		220										
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225		230		235	240										
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
	245		250												

<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

```

atgaggttccct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
aaageccatt tctgggttgg ctccccctc ctttccatgt atgtagtggc aatgtttgga 120
aactgcacag tgggtcttcat cgttaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgccttcagc caittgacctg gccttatcca catccaccat gcctaagatc 240
cttgcctctt tctgggttga ttcctgagag attagctttg aggcctgtct taccagatg 300
ttctttatcc atgcctctc agccattgaa tccaccatcc tgcctggcat ggcctttgac 360
cgttatgttg ccatctgcca cccactggcg catgctgcag tgcctcaaca taccagtaaa 420
gcccagattg gcactgtggc tgtgggtccg ggatccctct tttttttccc actgcctctg 480
ctgataaagg ggttgacctt ctgcactccc aatgtccctt cgcactccca ttgtgtccac 540
caggatgtaa tgaagtggc ctatgcagac actttgcccc atgttgtata tggcttact 600
gccattctgc tggctcatggg cgtggacgta atgttcatct ccttgcccta tttctgata 660
atacgaaagg ttctgcact gccttccaag tccagagcggg ccaaggcctt tggaaacctgt 720
gtgtcacaca ttggtgtggg actgccttcc tatgtgccac ttattggcct ctcaattgta 780
caccgctttg gaacagact tcatccatt gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcttc ctgtcatcaa tccatccttc tatgggtgca aaacaaaca gatcagaaca 900
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<211> 320

<212> PRT

<213> Homo sapiens

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 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
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 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
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 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
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<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
      50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
      65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
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Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
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Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
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Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
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Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
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Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
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Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
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Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
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Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
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Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Val Ile Ile Met
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 <213> Homo sapiens

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 Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
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 Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
 65 70 75 80
 Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
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 100 105 110
 Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
 115 120 125
 Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
 130 135 140
 Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
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 Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
 165 170 175
 Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
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 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
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 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
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<211> 6082

<212> DNA

<213> Homo sapiens

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Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser						
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Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys						
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Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln						
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Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg						
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Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly						
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Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn						
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 Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
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 Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
 1105 1110 1115 1120
 Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
 1125 1130 1135
 Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
 1140 1145 1150
 Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
 1155 1160 1165
 Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
 1170 1175 1180
 Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
 1185 1190 1195 1200
 Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
 1205 1210 1215
 Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
 1220 1225 1230
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